

09404900 EAST FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°09'51", long 112°57'28", in SE¹/4 SW¹/4 NW¹/4 sec. 2, T. 42 S., R. 10 W., Washington County, Hydrologic Unit 15010008, Zion National Park, on right bank 0.7 mi upstream from Zion National Park boundary, 1.2 mi upstream from Shunes Creek, 2.7 mi southeast of Springdale, and 3.4 mi south-southeast of Zion National Park headquarters.

DRAINAGE AREA.--343 mi².

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,940 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Numerous irrigation diversions upstream of station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft³/s, Aug 10, 1997, gage height, 11.38 ft, from floodmarks, from rating curve extended above 200 ft³/s on basis of slope-area measurements at gage heights, 6.41 ft and 9.70 ft; minimum daily discharge, 26 ft³/s, Sep 14, 15, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 11	1345	*72	*4.94				

Minimum daily discharge 26 ft³/s, Sep 14, 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	49	52	54	47	51	40	36	35	34	35	e37
2	36	49	54	53	50	49	39	36	35	33	36	e35
3	37	49	54	52	49	49	38	36	36	33	36	34
4	38	50	57	53	49	50	38	36	35	33	35	32
5	39	52	52	50	49	49	37	36	35	33	35	32
6	40	50	51	50	49	49	36	36	36	32	36	32
7	41	50	51	52	50	49	36	35	36	32	36	35
8	44	50	50	55	54	51	37	35	36	32	36	30
9	43	50	50	56	54	48	36	36	36	32	36	28
10	42	51	52	54	55	49	35	36	37	32	35	28
11	42	51	53	50	56	48	36	36	37	32	35	30
12	44	51	50	51	57	48	36	36	36	31	35	28
13	46	52	47	50	58	47	37	36	36	31	35	27
14	45	50	49	49	58	46	37	36	36	30	35	26
15	44	49	52	50	58	46	36	36	36	31	36	26
16	44	50	44	50	58	47	37	36	36	31	36	27
17	44	49	50	47	58	47	37	35	36	31	36	e28
18	45	49	50	47	58	47	36	35	37	31	36	e28
19	44	48	49	45	56	46	36	35	38	31	36	e28
20	45	49	50	48	56	45	37	35	38	31	36	e28
21	45	50	50	49	55	43	37	35	37	30	37	28
22	46	51	50	50	55	43	37	35	37	30	37	28
23	47	50	50	47	55	42	37	35	37	29	37	28
24	47	51	49	45	54	41	36	34	36	29	37	29
25	47	56	47	50	53	39	36	34	35	29	38	29
26	47	52	47	51	52	38	36	35	34	30	38	29
27	49	51	51	52	52	38	36	35	34	31	38	29
28	48	49	52	52	52	42	38	35	34	34	38	e29
29	48	52	55	51	---	44	37	35	34	35	38	e30
30	49	53	55	47	---	43	36	35	33	35	38	e30
31	49	---	55	43	---	41	---	35	---	35	e38	---
TOTAL	1360	1513	1578	1553	1507	1415	1103	1097	1074	983	1126	888
MEAN	43.87	50.43	50.90	50.10	53.82	45.65	36.77	35.39	35.80	31.71	36.32	29.60
MAX	49	56	57	56	58	51	40	36	38	35	38	37
MIN	35	48	44	43	47	38	35	34	33	29	35	26
AC-FT	2700	3000	3130	3080	2990	2810	2190	2180	2130	1950	2230	1760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	54.75	56.11	64.45	68.23	77.47	70.99	52.04	41.91	39.48	42.64	46.87	
MAX	62.3	62.8	62.9	110	110	153	200	109	57.7	44.4	52.0	74.6
(WY)	1998	1994	1997	1993	1993	1993	1993	1993	1993	1998	2001	1997
MIN	38.8	48.5	50.9	50.1	53.8	45.6	36.8	35.4	34.4	31.7	36.3	29.6
(WY)	1992	2001	2002	2002	2002	2002	2002	2002	1996	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1992 - 2002

ANNUAL TOTAL	18576	15197	55.19
ANNUAL MEAN	50.89	41.64	85.1
HIGHEST ANNUAL MEAN			41.6
LOWEST ANNUAL MEAN			2002
HIGHEST DAILY MEAN	191	Aug 22	450
LOWEST DAILY MEAN	31	Aug 16	26
ANNUAL SEVEN-DAY MINIMUM	33	Aug 14	27
ANNUAL RUNOFF (AC-FT)	36850	30140	39980
10 PERCENT EXCEEDS	66	52	73
50 PERCENT EXCEEDS	50	38	51
90 PERCENT EXCEEDS	36	31	36

e Estimated